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The Royal Society of London

PHILOSOPHICAL TRANSACTIONS

Volume 23
1702-1703

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JOHNSON REPRINT
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NEW YORK
1963

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*The only official reprint
authorized by
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PHILOSOPHICAL
TRANSACTIONS.

Giving some

ACCOUNT

OF THE

Present Undertakings, Studies and Labours

OF THE

INGENIOUS.

In many

Considerable Parts of the World.

V O L. XXIII. For the Years 1702 and 1703.

L O N D O N :

Printed for S. *Smith* and B. *Walford*, Printers to the
Royal Society, at the *Prince's Arms* in St Paul's
Church-yard. MDCCIV.

TO
Isaac Newton, Esq;
PRESIDENT,
AND TO THE
Council and Fellows
OF THE
ROYAL SOCIETY
OF
LONDON,

For the Advancement of
NATURAL KNOWLEDGE;

This Three and Twentieth Volume
OF THE
Philosophical Transactions,

Is humbly Dedicated by

Their most Obedient Servant,

Hans Sloane, S. R. Secr.

(Numb. 277.

PHILOSOPHICAL TRANSACTIONS.

For the Months of January and February, 1702.

THE CONTENTS.

- I. *An Account of the taking and taming of Elephants in Zeylan, by Mr. Strachan, a Physician, who lived 17 years there.*
- II. *An Account of Mr. Sam. Brown his Sixth Book of East India Plants, with their Names, Vertues, Description, &c. By James Petiver, Apothecary, and Fellow of the Royal Society. To these are added some Animals, &c. which the Reverend Father George Joseph Camel, very lately sent him from the Philippine Isles.*
- III. *A Letter from Mr Jonathan Kay, Chyrurgeon in Newport, Shropshire, concerning a strange Cancer, of which his Father dyed.*

C c c c c c c

IV.

- IV. *Part of a Letter from Mr Ralph Thoresby, F. R. S. to the 'publisher, concerning several observables in his Musæum, near Leeds in Yorkshire.*
- V. *Extraëts of two Letters from the Reverend Mr Abraham de la Pryme, F. R. S. to the Publisher, concerning Subterraneous Trees, the Bitings of Mad Dogs, &c.*
- V. *Part of a Letter from Mr Alex. Stuart (a Physician) to the publisher concerning some Spouts he observed in the Mediterranean.*

VI. *An Account of a Book, viz.*

Edmundi Dickensoni M. D. Physica vetus & vera, sive, Tractatus de Naturali veritate hexameri Mosaici. Per quem Probatur in historia Creationis cum generationis Universæ methodum atq; modum, tum veræ Philosophiæ principia, strictim atq; Breviter tradi. Londini 1702. in 40.

PHILOSOPHICAL TRANSACTIONS.

For the Months of March and April, 1702.

The CONTENTS.

- I. *Observations made in the Island of Ceilan, by Mr Strachan, on'the ways of catching Fowl and Deer, of Serpents of the antbear and of Cinamon.*
- II. *A Letter written by Monsieur Blondel to a Friend, informing him of what passed in the last publick Assembly of the Academy Royal of Sciences at Paris, held Nov. 12. 1701. Communicated by Monsieur Geoffroy, F. R. S.*
- III. *A Letter of Dr Wallis to Captain Edmund Halley, concerning the Captains Map of Magnetick Variations ; and some other things relating to the Magnet.*
- IV. *Methodus quadrandi genera quædam Curvarum autad Curvas Simpliciores reducendi, per A. de Moivre, R. S. S.*
- V. *An account of the appearance of several unusual Parhelia or Mock-suns, together with several circular Arches, lately seen in the Air, by E. Halley.*
- VI. *Part of some Letters from Mr Christopher Hunter to Dr Martin Lister, F. R. S. concerning several Roman Inscriptions , and other Antiquities in Yorkshire.*

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I. Ob.

PHILOSOPHICAL TRANSACTIONS.

For the Months of May and June, 1702.

The CONTENTS.

- I. *Observations on the Planting and Culture of Tobacco in Zeylan, by Mr Strachan.*
- II. *Part of some Letters from Mr Anthony van Leewuenhoeck, F. R. S. to the Royal Society, and the Right Honourable the Lord Somers their President, containing several Microscopical Observations and Experiments concerning the Animalcula in Semine Masculino of Cocks and Spiders, Shortness of Breath, &c.*
- III. *Another Letter from the same Mr Leewuenhoeck, concerning his observations on Rain Water.*
- IV. *Part of a Letter to the Publisher, concerning some Roman Coins, and other matters lately observed in Lincolnshire.*
- V. *Part of a Letter from Mr Thoresby, F. R. S. to the Publisher, giving a further account of the same.*
- VI. *Observations on the Class of Sweet Tastes, made by comparing the Tastes of Sweet Plants with Monsieur L' Emery's Chymical Analysis of them, in his Treatise of Drugs, by Sir John Floyer.*

PHILOSOPHICAL TRANSACTIONS.

For the Months of July and August, 1702.

The CONTENTS.

- I. *Part of a Letter from Dr. Charles Leigh of Lancashire to the Publisher, giving an account of strange Epileptick Fits.*
- II. *An Account of divers Schemes of Arteries and Veins, Dissected from Adult Human Bodies, and given to the Repository of the Royal Society by John Evelyn, Esq; F. R. S. To which are subjoyn'd a Description of the Extremities of those Vessels, and the manner the Blood is seen, by the Microscope, to pass from the Arteries to the Veins in Quadrupeds when living: With some Chyrurgical Observations and Figures after the Life, by William Cowper, F. R. S.*
- III. *Part of two Letters to the Publisher from Mr. James Cunningham, F. R. S. and Physician to the English at Chusan in China, giving an account of his Voyage thither, of the Island of Chusan, of the several sorts of Tea, of the Fishing, Agriculture of the Chinese, &c. with several Observations not hitherto taken notice of.*
- IV. *Part of a Letter from Mr James Yonge to Mr. John Haughton, F. R. S. concerning the internal use of Cantharides.*

T t t t t t t

I. Part

PHILOSOPHICAL TRANSACTIONS.

For the Months of September and October, 1702.

The CONTENTS.

- I. *Part of a Letter to the Publisher, from the Reverend Mr. Abr. de la Pryme, giving an Account of some Observations he made, concerning Vegetation.*
- II. *A Discourse concerning some Influence of Respiration on the Motion of the Heart, hitherto unobserved. By J. Drake, M. D. F. R. S.*
- III. *The Description and manner of Using a late Invented Set of small Pocket-Microscopes, made by James Wilson; which with great ease are apply'd in viewing Opake, Transparent, and Liquid Objects: as the Fari-na of the Flowers of Plants, &c. The Circulation of the Blood in Living Creatures, &c. The Animalcula in Semine, &c.*
- IV. *Part of a Letter from the Reverend Mr. Abraham de la Pryme, F. R. S. to the Publisher, concerning a Spout observed by him in Yorkshire.*
- V. *Part of two Letters from Mr. Henry Vaughan to the Publisher, containing some uncommon Observations made upon the Dissection of some Morbid Bodies.*

B b b b b b b b

I. Part

PHILOSOPHICAL TRANSACTIONS.

For the Months of November and December, 1702.

The CONTENTS.

- I. *Some observations on Coral, large Oysters, Rubies, the growing of a sort of Ficus Indica, the Gods of the Ceilaneſe, &c. made in Ceilan, by Mr Strachan.*
- II. *Mr Sam. Brown his ſeventh Book of Eaſt India Plants, with an Account of their Names, Vertues, Deſcription, &c. By James Petiver, Apothecary, and Fellow of the Royal Society.*
- III. *A Letter from Dr Thomas Molyneux, F. R. S. to the Right Reverend St George, Lord Biſhop of Clogher in Ireland, containing ſome Thoughts concerning the Ancient Greek and Roman Lyre, and an Explanation of an obſcure Paſſage in one of Horace's Odes.*
- IV. *A Letter from Mr James Yonge, F. R. S. to Dr Edward Tyſon, F. R. S. concerning a Ball, extracted from a perſon, who had ſuffered by it 30 years, in which was a Plumb-ſtone.*
- V. *Some inſtances of other perſons who were hurt by ſwallowing Plumb-ſtones, by the Publisher.*
- VI. *A Letter from Mr Thoresby, F. R. S. to the Publisher, concerning the Veſtigia of a Roman Town lately diſcovered near Leeds in Yorkſhire.*

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I. Some

PHILOSOPHICAL TRANSACTIONS.

For the Months of January and February, 1703.

The CONTENTS.

- I. *Part of a Letter to Dr Mead, concerning Secretions in an Animal Body.* By Jos. Morland, M. D.
- II. *An Abstract of part of a Letter from Dr Bonomo to Signior Redi, containing some Observations concerning the Worms of Humane Bodies.* By Richard Mead, M. D.
- III. *Observatio de portione intestini canis feliciter abscissa,* a Joanne Shipton, Chirurgiæ Studioſo.
- IV. *Part of a Letter from Mr Antony van Leeuwenhoek, F. R. S. concerning green Weeds growing in Water; and some Animalcula found about them.*
- V. *An account of Books.* I. *Astronomiæ Physiçæ & Geometricæ Elementa.* Auctore Davide Gregorio, M. D. *Astronomiæ Professore Saviliano & P. S. S. Oxoniæ, 1702. fol.*
- II. *An Abstract of Dr Mead's Mechanical Account of Poyſons sent to the Publisher, by Mr Sam. Morland.*

O o o o o o o

I. Part.

ADVERTISEMENT.

THere having been lately Proposed by Subscription Mr RAY's third and last Vol. of his *HISTORY* of *PLANTS*, whereby that whole Work is completed, containing more Plants, and Description of new *Species*, than all the Books yet extant on that subject; many hundreds being communicated from the Streights of *Magellan*, the *Philippine Islands*, and several Countries never searched of Plants before. By *F. Georgio Camelli* and other *Virtuosi*, who either reside, or have made careful remarks in the respective places; all disposed in an easie method, to be found by their Tribes and Characteristicks; with an account of such parts of them as are either Specificks for some Diseases, as the *Peruvian Bark*, &c. or are Universal Medicines, as *Faba St Ignatii*, &c. beside many peculiarities belonging to particular Plants, every where occurring in the Work. The same is already well advanced at the Press, as may be seen by the Sheets printed off at the Undertakers *SAM. SMITH* and *BENJ. WALFORD*, Printers to the Royal Society, at the *Prince's Arms* in *St Paul's Church-yard*. Of whom Proposals may be had, and Printed Receipts given for the first payment.

ADVERTISEMENT.

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PHILOSOPHICAL TRANSACTIONS.

For the Months of March and April, 1703.

The CONTENTS.

- I. *Part of a Letter from the Reverend Mr Abraham de la Pryme, F. R. S. to the Publisher, concerning a Spout lately observed by him in Hatfield.*
 - II. *De Curvarum Tangentibus e Maximorum ac Minimorum Theoria immediate deductis: Una cum Theorem: quibusdam ad Sectiones conicas pertinentibus, ejusdem calculi auxilio investigatis. Autore. Humphrido Dittono.*
 - III. *Specimen Methodi Generalis determinandi Figuratur Quadraturas. Autore Jo Craig.*
 - IV. *An Extract of some Letters sent to Sir C. H. relating to some Microscopical Observations. Communicated by Sir C. H. to the Publisher.*
 - V. *An Account of a Book.*
- Hippocratis Aphorismi, cum Commentariolo. Auctore Martino Lister, e Medicis Serenissæ Majestatis Regina Annæ. Londini Typis W. B. Impensis A. & J. Churchil, ad Insigne Nigri Cygni, vico vulgo dicto Parer-noster row, 1703.*

PHILOSOPHICAL TRANSACTIONS.

For the Months of May and June, 1703.

The CONTENTS.

- I. *A Letter of Dr John Wright, F. Col. Physf. Lond. to Mr Wm Cowper, F. R. S. concerning the Cure of an Apostemation of the Lungs.*
 - II. *An Answer to Dr Wright's Letter, concerning the Cure of an Apostemation in the Lungs, by William Cowper, F. R. S.*
 - III. *Georgij Josephi Cameli Observationes de Avibus Philippensibus ; Communicatæ a Jacobo Petiver. F. R. S.*
 - IV. *A Letter from Dr William Oliver to the Publisher, giving his Remarks in a late Journey into Denmark and Holland.*
 - V. *An Account of a Book. Gazophilaci Naturæ & Artis ; Decas. 1. In qua Animalia Quadrupeda, Aves, Pisces, Reptilia, Insecta, Vegetabilia ; item Fossilia Corpora, marina, & stirpes Minerales e Terra eruta, Lapidés figura insignes, &c. Descriptionibus brevibus & Iconibus illustrantur. Hisce annexa erit supellex Antiquaria, Numismata, Gemmæ Excisæ & Sculpturæ, Opera Figulinæ, Lucernæ, Urnæ, Instrumenta varia, Inscriptiones, Busta, reliquaq; ad rem priscam spectantia ; Item Machinæ, Effigies Clarorum Virorum, omniaq; Arte producta. A Jacobo Petiver Pharmacop. Lond. & Regiæ Societatis Socio.*
- Londini ex Officin. S. Smith Cœmeterio D. Pauli, & Christ. Bateman in vico vulgo dicto Pater noster-Row. 1702.*

ADVERTISEMENT.

THat Curious Person *Madam Maria Sybilla Merian*, who hath already published two Vollums in *Quarto*, concerning such *Insects* and their several changes, which she had observed in *Germany* and *Holland* with their *lively Figures*; being lately returned from *Surinam* in the *West-Indies*, doth now propose to publish a *Curious History* of all those *Insects*, and their transmutations that she hath there observed, which are many and very rare, with their *Description* and *Figures* in large *Folio* on *Imperial Paper*, containing 60 *Tables*, curiously performed from her own *Designs* and *Paintings*. These she proposes at thirty shillings a *Vollume*, viz. ten shillings in hand, and ten more at the receipt of one Moity or 30 *Tables*, and the rest to be delivered on the third payment.

Such Persons as are willing to *Subscribe* for a work of this Nature, (which for its *Curiosity* and *Performance* very well deserves publick *Encouragement*) She desires the first Payment may be speedily made to *James Petiver* Apothecary in *Aldersgate street, London*, to whom she hath sent several *Tables*, and some in *Colours*, to shew their *Curiosity*, and how admirably they are engraved, which may be seen by any that desire it. The Work is in great forwardness, and highly approved of by all that see it.

ADVERTISEMENT.

THere having been lately Proposed by Subscription Mr *RAT*'s third and last Vol. of his *HISTORY* of *PLANTS*, whereby that whole Work is completed containing more Plants, and Description of new *Species*, than all the Books yet extant on that subject; many hundreds being communicated from the Streights of *Magellan*, the *Philippine Islands*, and several Countries never searched of Plants before. By *F. Georgio Camelli* and other *Virtuosi*, who either reside, or have made careful remarks in the respective places; all disposed in an easy method, to be found by their Tribes and Characteristicks; with an account of such parts of them as are either Specificks for some Diseases, as the *Peruvian Bark* &c. or are Universal Medicines, as *Faba St Ignatij*, &c. beside many peculiarities belonging to particular Plants, every where occurring in the Work. The same is already well advanced at the Press, as may be seen by the Sheets Printed off at the Undertakers *SAM. SMITH* and *BENJ. WALFORD*, Printers to the Royal Society, at the *Prince's Arms* in *St Paul's Church-yard*. Of whom Proposals may be had, and Printed Receipts given for the first payment.

PHILOSOPHICAL TRANSACTIONS.

For the Months of July and August, 1703.

The CONTENTS.

- I. *An Extract of a Letter to Dr Edward Tyson from the Reverend Mr Charles Ellis, giving an Account of a young Lady born Deaf and Dumb, taught to speak. That Costerus first invented Printing, Anno 1430. Of the Physick Garden at Amsterdam, and the Chamber of Rarities at Boln. Of a Monstrous Birth. Of the Quarry at Maestricht. Fr. Linus's Dyals at Leige. The Cachot or Rooms cut in the Rock of the Castle of Namur. Sir Jo. Mandevil's Tomb at Leige. The Friesland Boy with Letters in his Eye, &c.*
- II. *A Description of some Corals, and other curious Submarines lately sent to James Petiver, Apothecary and Fellow of the Royal Society, from the Philippine Isles, by the Reverend George Joseph Camel; as also an Account of some Plants from Chusan, an Island on the Coast of China; Collected by Mr James Cuninghame, Chyrurgeon & F. R. S.*
- III. *Part of a Letter from Mr Anthony van Lewenhock, F. R. S. concerning his Observations on some Animalcula in Water, the dissolution of Silver, &c.*
- IV. *A Letter from the Reverend Mr William Derham, F. R. S. to Mr John Haughton, F. R. S. containing his Observations on the Weather, &c. for some years last past.*

I. An

PHILOSOPHICAL TRANSACTIONS.

For the Months of September and October, 1703.

The CONTENTS.

- I. *The Eighth Book of East-India Plants, sent from Fort St. George, to Mr James Petiver, Apothecary and F. R. S. with his remarks on them.*
- II. *A Letter from Mr Anthony van Leuwenhoek, concerning the Seeds of Oranges, &c.*
- III. *Some new Observations upon the parts and use of the Flower in Plants. By Mr Sam. Morland.*
- IV. *Experimentum Anatomicum ad veram Duræ Matris motus causam detegendam institutum, ab H. Ridley. M. D. & Reg. Coll. Medic. Lond. Socio. Sept. 20. 1703.*
- V. *An Account of a Book, entituled, Consilium Aetilogicum De Casu quodam Epileptico : Quo respondetur Epistolæ Doctiss. Viri Thomæ Hobart, M.D. Annexa Disquisitione de Perspirationis Insensibilis Materia, & Peragendæ ratione. Authore Gulielmo Cole, M.D. Coll. Med. Lond. Socio.*

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I. The

(Numb. 288.)

PHILOSOPHICAL TRANSACTIONS.

For the Months of November and December, 1703.

The CONTENTS.

- I. *Two Letters from a Gentleman in the Country, relating to Mr Leuwenhoeck's Letter in Transaction No 283. Communicated by Mr C.*
- II. *Part of two Letters from Mr Stephen Gray, concerning the Spots of the Sun, observed by him in June last.*
- III. *Some Observations on the Spots of the Sun, by the Reverend Mr William Derham, F. R. S.*
- IV. *Some Observations concerning the Invention and Progress of Printing, to the Year 1465. Occasioned by the Reverend Mr Ellis's Letter, exhibited in Phil. Transf. No 286. Pag. 1416.*

I. Two